



**North American Hydro Holdings, Inc. — Plant Operations:**

116 State Street, P.O. Box 167, Neshkoro, WI 54960 USA  
Tel 920-293-4628 Fax 920-293-8087 Email nah@nahydro.com Web www.nahydro.com

**Engineering & Manufacturing:**

1323 B Everest Avenue, Schofield, WI 54476 USA  
Tel 715-359-0209 Fax 715-359-1049 Email schofield@nahydro.com Web www.nahydro.com

February 25, 2008

The Secretary  
Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

**Re: *Flambeau Upper, Project No. 2640, Flambeau Hydro LLC  
Article 412, Purple Loosetrife Inventory***

Dear Secretary:

On behalf of Flambeau Hydro, LLC, and in accordance with the Purple Loosetrife Monitoring Plan per license article named above, North American Hydro Holdings, Inc. submits the annual Purple Loosetrife Inventory for 2007 for the above named project. Copies of the inventory have been sent to the Wisconsin Department of Natural Resources and the US Fish & Wildlife Service.

If you have any questions regarding this submission, please contact Mr. Richard Loeffler at 920-293-4628.

Sincerely,

***NORTH AMERICAN HYDRO HOLDINGS, INC.***

A handwritten signature in black ink, appearing to read "Richard Loeffler", is written over a horizontal line.

**FOR**

Charles Alsberg  
Executive Vice President

Cc: FERC – CRO

08-02-13 RAL FLUP 2007 loosetrife survey to FERC.doc

**Flambeau Upper Project Purple Loosestrife Inventory  
August 6, 2007  
FERC Project #2640 Article 412**

**Flambeau Hydro, LLC  
116 State St.  
Neshkoro, WI 54960**

*Purple Loosestrife*

On August 6, 2007, Flambeau Hydro, LLC (FHLLC) performed an inventory of purple loosestrife plants at the Flambeau Upper Project in Price County, Wisconsin. The method of inventory as approved and modified by Federal Energy Regulatory Commission (FERC) Order of June 18, 2003 was defined as follows:

While Purple Loosestrife is blooming in mid July to early August, the inventory should be conducted using a boat to survey the impoundment above the dam within the Project Boundary and on foot or by boat below the dam within the Project Boundary. County wetland maps may be used to determine other areas where Purple Loosestrife could be found on lands owned by FHLLC within the Project Boundary. Lands owned by FHLLC within the Project Boundary will be surveyed on foot. A pair of binoculars should be used to search for the purple flowered spikes of the plant. When plants are located, the person(s) inventorying should get close enough to make a positive identification without disturbing the plants or the immediate area around the plants as this could cause them to spread. A GPS receiver will be used to establish a GPS coordinate for the location of the plants. If it is not possible to get close enough to establish an accurate location, an approximate location will be established with reference to an established GPS coordinate. The plants should be inventoried by marking and numbering the location on a Project map along with notes approximating size of plants, stand area, percent cover, stem density, plant density, and location with reference to established GPS coordinates. Photos and/or videotape will be taken of the largest occurrences.

Example:

#1 6' tall plants; 4' X 20'; 30% cover; 4 – 5 stems per plant; 4 plants; on shoreline N45° 56.183' W90° 26.748'; no photo

#2 5' - 7' tall plants; 10' X 10'; 25% cover; 4 – 5 stems per plant; 10 plants; in marsh ~50 feet bearing 25° from N45° 56.256' W90° 26.710'; photo No. 1

The area to be inventoried shall be the shoreline of the impoundment to elevation 1487.4 feet NGVD and lands owned by FHLLC within the Project



Boundary as indicated on the Project Maps 1 & 2, dated November 1991, included in Exhibit G of Flambeau Paper Corp. Application For A Subsequent License for the Upper Hydroelectric Project FERC Project #2640.

#### General Observations:

The Flambeau Upper Project Boundary was divided into three different areas; *the impoundment* (from just downstream of the last rapids before the impoundment to the dam), *the power canal/bypassed reach* (the power canal from the dam to the powerhouse, and the bypassed reach area from the dam to the single lane service bridge just upstream of the HWY 182 bridge), and *the tailrace* (from the single lane service bridge just upstream of the HWY 182 bridge to the HWY 182 bridge).

*The tailrace* was surveyed by boat and no purple loosestrife plants were observed.

*The power canal/bypassed reach* was surveyed on foot one occurrence of purple loosestrife plants was observed in 2007. Originally observed in 2006, these purple loosestrife plants were, once again, inventoried, pulled, and have been noted on the survey sheet(s) and map(s) at the end of this report. No other occurrences of purple loosestrife were observed.

*The impoundment* was surveyed by boat. One suspected occurrence of purple loosestrife plants had been observed in this area and is noted on the lake map and survey comments at the end of this report. In 2002, the landowner was sent an informational brochure published by the WDNR and was encouraged to contact the WDNR for identification and control procedures. During the 2003 inventory, specimens from these plants were taken to the Wisconsin Department of Natural Resource Service Center in Wautoma, Wisconsin for identification. Analysis revealed that the plants are winged loosestrife (*Lythrum alatum*) and not purple loosestrife (*Lythrum salicaria*). In 2004, the owner removed these plants. In 2007, plants were observed in this location once again. No purple loosestrife plants were observed in the impoundment in 2006.

During the inventory, a digital camera was used to document new occurrences of purple loosestrife as noted in the survey comments at the end of this report.

**Purple Loosestrife Survey**

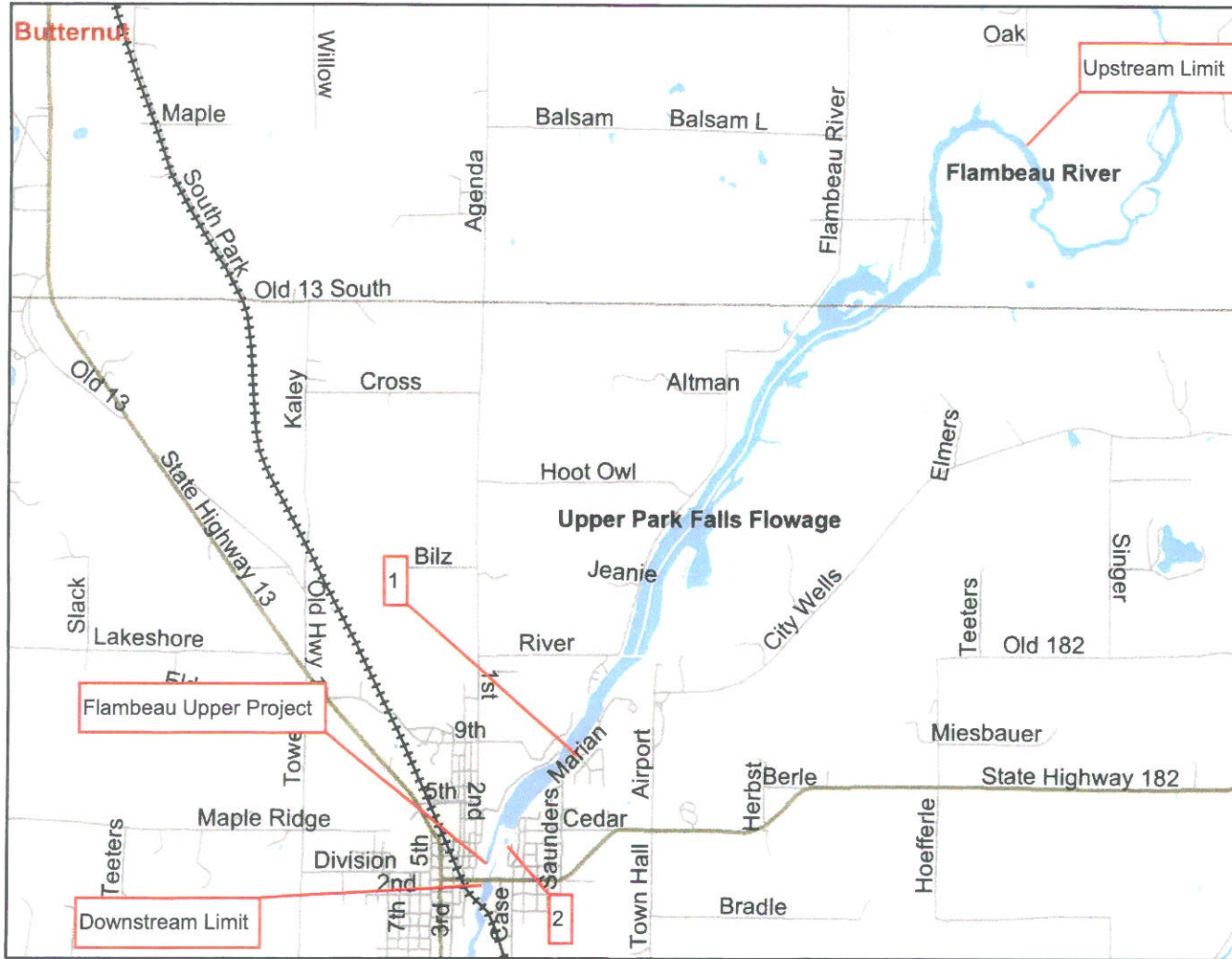
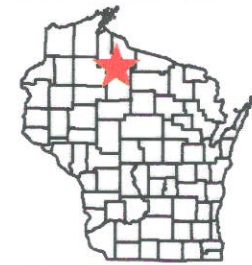
**Project:** Flambeau Upper #2640  
**Date:** 8/6/2007  
**Crew:** RAL & CTM

**Datum:** WGS 84  
**Page:** 1 of 1

Sighting #	GPS point	Latitude	Longitude	Plant Height	Stand Area	Comments
1	2 FLUPPL001	N45°56.807'	W090°26.043'	3' - 4'	~4' x 8' 2 - 3 Plants	Located ~3 yards bearing 90° (east) of GPS point on residence shore. When first observed in 2002, appeared to be quite a number of plants, ~15 - 25, growing close together. Plants appeared to have ~3 - 5 stems per plant. The landowner was sent an informational brochure published by the Wisconsin Department of Natural Resources (WDNR) and was encouraged to contact the WDNR for identification and control procedures. This occurrence recorded on video tape in 2002. In 2003 samples were taken of this occurrence along with a recording on video tape. Analysis revealed that the plants are winged loosestrife ( <i>Lythrum alatum</i> ) and not purple loosestrife ( <i>Lythrum salicaria</i> ). In 2004, the land owner removed these plants. In 2005 and 2006, no purple loosestrife occurred at this location. In 2007, plants occurred at this location and were photographed.
2	246 FLUPPL002	N45°56.157'	W090°26.607'	5'	1 Plant	Located on the waypoint in the cattails at the northwest corner of the electrical sub-station fence. There was 1 plant with 1 - 3 stems per plant. In 2006, plants at this location were photographed and pulled. In 2007, this plant was pulled.



# Flambeau Upper #2640 Purple Loosestrife Survey 2007



**Legend**

- County Boundaries
- ✕ Railroads
- Major Highways
- Interstate
- US Highway
- State Highway
- Local Roads
- Civil Towns
- Civil Town
- 24K Open Water
- Cities and Villages
- Village
- City

Scale: 1:60,900



This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Submission Contents

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